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1) Write a program to print a numbers from 1 to 10.

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**package** printnumber;

**public** **class** PrintNumber {

**public** **static** **void** main(String[] args) {

// **TODO** Auto-generated method stub

**for**(**int** i=1;i<=10;i++)

{

System.***out***.println(i);

}

}

}

**output:**

1

2

3

4

5

6

7

8

9

10

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*2)Write a program to calculate the sum of first 10 natural number.

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**package** sumof;

**public** **class** SumOf {

**public** **static** **void** main(String[] args) {

// **TODO** Auto-generated method stub

**int** sum=0;

**for**(**int** i=1;i<=10;i++)

{

sum=sum+i;

System.***out***.print(i+"+");

}

System.***out***.print("= "+sum);

}

}

**output:**

1+2+3+4+5+6+7+8+9+10= 55

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3)Write a program that prompts the user to input a positive integer. It should then print the multiplication table of that number.

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**package** table;

**import** java.util.Scanner;

**public** **class** Table {

**public** **static** **void** main(String[] args) {

// **TODO** Auto-generated method stub

**int** a;

System.***out***.println("Enter the positive integer");

Scanner s1=**new** Scanner(System.***in***);

a=s1.nextInt();

**for**(**int** i=1;i<=10;i++)

{

System.***out***.println(a+"\*"+i+"= "+a\*i);

}

}

}

**output:**

Enter the positive integer

4

4\*1= 4

4\*2= 8

4\*3= 12

4\*4= 16

4\*5= 20

4\*6= 24

4\*7= 28

4\*8= 32

4\*9= 36

4\*10= 40

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4) Write a program to find the factorial value of any number entered through the keyboard.

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**package** factorial;

**import** java.util.Scanner;

**public** **class** Factorial {

**public** **static** **void** main(String[] args) {

// **TODO** Auto-generated method stub

**int** n;

System.***out***.println("Enter the Number");

Scanner s1=**new** Scanner(System.***in***);

n=s1.nextInt();

**int** i=1;

**while**(n>0)

{

i=i\*n;

n--;

}System.***out***.println("Factorial of given number is= "+i);

}

}

**output:**

Enter the Number

7

Factorial of given number is= 5040

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5)Two numbers are entered through the keyboard. Write a program to find the value of one number raised to the power of another. (Do not use Java built-in method)

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**package** power;

**import** java.util.Scanner;

**public** **class** Power {

**public** **static** **void** main(String[] args) {

// **TODO** Auto-generated method stub

**int** a;

System.***out***.println("Enter the value of a");

Scanner s1=**new** Scanner(System.***in***);

a=s1.nextInt();

**int** b;

System.***out***.println("Enter the value of b");

Scanner s2=**new** Scanner(System.***in***);

b=s2.nextInt();

**int** d=a;

**int** c=b;

**while**(c>1)

{

d=d\*a;

c--;

}

System.***out***.println(d);

}

}

**output:**

Enter the value of a

3

Enter the value of b

4

81

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6)Write a program that prompts the user to input an integer and then outputs the number with the digits reversed. For example, if the input is 12345, the output should be 54321.

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**package** reverse;

**import** java.util.Scanner;

**public** **class** Reverse {

**public** **static** **void** main(String[] args) {

// **TODO** Auto-generated method stub

**int** i,rev=0;

System.***out***.println("Enter the Number");

Scanner s1=**new** Scanner(System.***in***);

i=s1.nextInt();

**while**(i!=0)

{

**int** a=i%10;

rev=rev\*10+a;

i/=10;

}

System.***out***.println(rev);

}

}

**output:**

Enter the Number

12345

54321

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7)Write a program that reads a set of integers, and then prints the sum of the even and odd integers.

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**package** evenoddsum;

**import** java.util.Scanner;

**public** **class** EvenOdd {

**public** **static** **void** main(String[] args) {

// **TODO** Auto-generated method stub

**int** j=0,k=0,num;

**char** ch;

Scanner s1=**new** Scanner(System.***in***);

**do** {

System.***out***.println("Enter the Number");

num=s1.nextInt();

**if**(num%2==0)

{

j=j+num;

}

**else**

{

k=k+num;

}

System.***out***.println("Do ypu want to continue y/n ?");

ch=s1.next().charAt(0);

}**while**(ch=='y'||ch=='Y');

System.***out***.println("even sum is= "+j);

System.***out***.println("odd sum is= "+k);

}

}

**output:**

Enter the Number

12

Do ypu want to continue y/n ?

y

Enter the Number

35

Do ypu want to continue y/n ?

y

Enter the Number

24

Do ypu want to continue y/n ?

y

Enter the Number

17

Do ypu want to continue y/n ?

y

Enter the Number

2

Do ypu want to continue y/n ?

n

even sum is= 38

odd sum is= 52

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8)Write a program that prompts the user to input a positive integer. It should then output a message indicating whether the number is a prime number.

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**package** primenumber;

**import** java.util.Scanner;

**public** **class** Prime {

**public** **static** **void** main(String[] args) {

// **TODO** Auto-generated method stub

**int** n,i,count=0;

System.***out***.println("enter the number");

Scanner s1=**new** Scanner(System.***in***);

n=s1.nextInt();

**for**(i=1;i<=n;i++)

{

**if**(n%i==0)

{

count++;

}

}

**if**(count==2)

{

System.***out***.println(n+" is prime number");

}

**else**

{

System.***out***.println(n+" is not a prime number");

}

}

}

1)**output:**

enter the number

7

7 is prime number

2)**output:**

enter the number

6

6 is not a prime number

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9)Write a program to calculate HCF of Two given number.

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**package** hcfofnumber;

**import** java.util.Scanner;

**public** **class** Hcf {

**public** **static** **void** main(String[] args) {

// **TODO** Auto-generated method stub

**int** a,b,hcf; // a=12 ,b=15,

System.***out***.println("enter the number");

Scanner s1=**new** Scanner(System.***in***);

a=s1.nextInt();

b=s1.nextInt();

**if**(a>b) // 12>15 condition false

{

hcf=a;

}

**else**

{

hcf=b; //hcf=15

}

**for**(**int** hcf1=hcf;hcf1<=hcf;hcf1--) // for(hcf1=15; 15<=15; )

{

**if**(a%hcf1==0 && b%hcf1==0) // 12%15==0 & 15%15==0 (if both are true then print the msg or loop continues

{

System.***out***.println("hcf of "+a+ " and "+b+" is: "+hcf1);

**break**;

} //hcf--=15--=14

}

}

}

**output:**

enter the number

12

15

hcf of 12 and 15 is: 3

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10)Write a do-while loop that asks the user to enter two numbers. The numbers should be added and the sum displayed. The loop should ask the user whether he or she wishes to perform the operation again. If so, the loop should repeat; otherwise it should terminate.

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**package** printsum;

**import** java.util.Scanner;

**public** **class** PrintSum {

**public** **static** **void** main(String[] args)

{

Scanner s1 = **new** Scanner(System.***in***);

**int** num1, num2;

**char** ch;

**do**

{

System.***out***.print("Enter the first number ");

num1 = s1.nextInt();

System.***out***.print("Enter the second number ");

num2 = s1.nextInt();

System.***out***.println("Sum of numbers: " +(num1+num2));

System.***out***.print("Do you want to continue y/n? ");

ch = s1.next().charAt(0);

System.***out***.println();

}**while**(ch=='y' || ch == 'Y');

}

}

**output:**

Enter the first number 12

Enter the second number 12

Sum of numbers: 24

Do you want to continue y/n? y

Enter the first number 25

Enter the second number 10

Sum of numbers: 35

Do you want to continue y/n? n

n

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11)Write a program to enter the numbers till the user wants and at the end it should display the count of positive, negative and zeros entered.

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**package** posnegzero;

**import** java.util.Scanner;

**public** **class** print {

**public** **static** **void** main(String[] args) {

// **TODO** Auto-generated method stub

**int** n,count1=0,count2=0,count3=0;

**char** ch;

**do**

{

System.***out***.println("enter the number");

Scanner s1=**new** Scanner(System.***in***);

n=s1.nextInt();

**if**(n>0)

{

count1++;

}

**if**(n<0)

{

count2++;

}

**if**(n==0)

{

count3++;

}

System.***out***.print("Do you want to continue y/n? ");

ch = s1.next().charAt(0);

System.***out***.println();

}**while**(ch=='y' || ch == 'Y');

System.***out***.println("positive count= "+count1);

System.***out***.println("negative count= "+count2);

System.***out***.println("zero count= "+count3);

}

}

**output:**

enter the number

34

Do you want to continue y/n? y

enter the number

-45

Do you want to continue y/n? y

enter the number

0

Do you want to continue y/n? y

enter the number

23

Do you want to continue y/n? y

enter the number

-14

Do you want to continue y/n? y

enter the number

0

Do you want to continue y/n? y

enter the number

-35

Do you want to continue y/n? n

positive count= 2

negative count= 3

zero count= 2

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12)Write a program to enter the numbers till the user wants and at the end the program should display the largest and smallest numbers entered.

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**package** largesmall;

**import** java.util.Scanner;

**public** **class** print {

**public** **static** **void** main(String[] args) {

// **TODO** Auto-generated method stub

**int** n,count=1;

**char** ch;

**int** max=0;

**int** min=0;

Scanner s1=**new** Scanner(System.***in***);

**do**

{

System.***out***.println("enter the number");

n=s1.nextInt();

**if**(count==1)

{

min=max=n;

}

**if**(n>max)

{

max=n;

}

**if**(n<min)

{

min=n;

}

System.***out***.print("Do you want to continue y/n? ");

ch = s1.next().charAt(0);

count=0;

System.***out***.println();

}**while**(ch=='y' || ch == 'Y');

System.***out***.println("large number= "+max);

System.***out***.println("small number= "+min);

}

}

**output:**

enter the number

12

Do you want to continue y/n? y

enter the number

34

Do you want to continue y/n? y

enter the number

78

Do you want to continue y/n? y

enter the number

50

Do you want to continue y/n? y

enter the number

39

Do you want to continue y/n? n

large number= 78

small number= 12

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